

Claims

A 1. System for remote loading of objects or files in order to update software, wherein the architecture of the operating system calls for the different tasks to be broken down into software modules that are connected to one another by dynamic links or consist of executable subroutines with primary dependence with other parts of the operating system, whereby each of the modules consists of object files or libraries that are represented by dynamic link libraries, which are organized among themselves according to a number of dependence levels that are described in their respective attributes.

2. System for remote loading of objects or files in order to update software according to claim 1, wherein the attributes of an object or a library indicate the version number and the dependencies of the object with respect to other objects.

3. System for remote loading of objects or files in order to update software according to claim 2, wherein the attributes indicate the levels attributed to the modules.

4. System for remote loading of objects or files in order to update software according to claims 1-3, wherein the different tasks include a main task, which includes a module (JUKECORE), whose purpose is to load the dynamic link libraries (DLL), to initialize the nucleus of the program, to initialize the graphics management module (GFX), to initialize the library loading module (WDLL), to load the Telecom module of the telecommunications tasks (TELECOM.DLL), and to launch the screen interpreter program

as a main task.

A 5. System for remote loading of objects or files in order to update software according to claim 4, wherein the program is subdivided into a certain number of modules that define a task that is specific to the terminal.

6. System for remote loading of objects or files in order to update software according to claim 5, wherein said specific task is that which corresponds to a jukebox and includes a specific main task, a certain number of modules that define the "Windows" functions of the display, which are the following:

- a module for running the mouse or the touch-screen signals;
- a module for running the messages exchanged among the objects;
- a FIL.DJL module for managing the files on disk;
- a FILIO.DJL read-write module for files on disk;
- a JSTRUCT.DJL file for monitoring all of the events generated by the hardware, such as the touch screen, the sound card, and the money hardware processing interface.

7. System for remote loading of objects or files in order to update software according to claim 5 or 6, wherein the specific main task of the jukebox application includes a module (SILOAD.DLL) that contains the loader program library whose purpose is to verify the required dynamic link library versions, to load them, and to call the Telecom task module in order to transfer files.

8. System for remote loading of objects or files in order to update software according to claim 7, wherein said SILOAD module contains the list in a file (DLL.DEFAULT) of the minimum versions that are acquired for operation, as well as the list of all of the functions that are represented either by libraries (DATA JUKEBOX LIBRARY) or by object files (DJO, DATA JUKEBOX OBJECT).

9. System for remote loading of objects or files in order to update software according to claim 8, wherein each object or library contains the list of all of the functions that the library or object needs, as well as the version numbers and dependencies.

10. System for remote loading of objects or files in order to update software according to claim 4, wherein WDLL manages all of the new modules and verifies that the remotely loaded modules have no missing dependencies and have been loaded with the necessary versions.

11. System for remote loading of objects or files in order to update software according to claim 7, wherein SILOAD manages the loading of the modules that are specific to the task of the terminal, i.e., all of the DJL modules already listed above, as well as the jukebox library modules consisting of WOBJECT which manages the objects, the mixer, and purchases; the WCURSOR module, which manages the movements of the cursor; the DBMAPI module, which manages the database; the WFONT module, which manages all the font types; the PARSER module (PARSER analysis

program), which analyzes and generates the screens from the script and verifies the grammar with the aid of the "GRAMMAR.DJL" module and the lexical module "LEXY.DJL."

12. System for remote loading of objects or files in order to update software according to claim 11, wherein the library loading module SLOAD includes a "WINDEF" module, which contains the list of the files that have to be included in order to manage the windows of a Windows display that is provided on the monitor of the jukebox-type terminal.

13. System for remote loading of objects or files in order to update software according to claim 12, wherein said list of objects consist of:

- an object module "OBJET WPSCREEN.DJO", which makes it possible to define the main page on the monitor;
- a "WSCREEN.DJO" module, which makes it possible to determine on this main page the number of screens available and thus to make it possible to display multiple windows or screens;
- a "WIMAGE.DJO" module, which makes it possible to determine and define on the screen the image that the screen will use;
- a "WANIM.DJO" module, which makes it possible to define the animation when the image is animated;
- a "WBUTTON.DJO" module, which makes it possible to define and manage the buttons that are used on the screen of the main page;

- a "WLABEL.DJO" module, which makes it possible to create labels that make it possible to write on top of an object; and
- a "WSCROLLER.DJO" module, which makes it possible to define scrolling display zones, for instance between two points, vertical, horizontal, diagonal.

14. System for remote loading of objects or files in order to update software according to claim 13, wherein all of these object modules that are managed by the main task use a "JHANDLER" library, which makes it possible to define the fixed uses of the screens and thus to determine which are the interfaces that ensure the links to the different objects that are defined by the previous modules.

15. System for remote loading of objects or files in order to update software according to claim 7, wherein the SILOAD task launches or loads the "XCP" module, making it possible to manage payment tasks such as ticket receiving systems or coin or card payment units and also makes it possible to back up the basic information in the IBUTTON.